

Figure S4. Persistent antigen exposure resulting from impaired T cell cytotoxicity machinery results in progressive CART19 dysfunction.

- (A-B) WT, TRAILKO or PRF1KO CART19 cells were combined with WT Nalm6 and (A) Nalm6 survival and (B) CART19 expansion was measured over time.
- (C) Schematic of functional evaluation studies, in which CART19 cells were sorted after short-term (5 day) or long-term (15 day) initial cultures with WT Nalm6, and then re-exposed to WT Nalm6.
- (D-E) Measurement of effector cytokine secretion after 48h of secondary culture following (D) short-term or (E) long-term initial culture.
- \*P<0.05, \*\*P<0.01, \*\*\*P<0.001, \*\*\*\*P<0.0001, ns: not significant